

101 658361

Cofc



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Koichi Otsuki

Attorney Docket No.: MES1P046C1

Patent: 7,165,827

Issued: January 23, 2007

Title: PRINTING UP TO EDGE OF PRINTING
PAPER WITHOUT PLATEN SOILING

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on September 10, 2007 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Signed: _____

Natalie Morgan
Natalie Morgan

**REQUEST FOR CERTIFICATE OF CORRECTION
OF OFFICE MISTAKE
(35 U.S.C. §254, 37 CFR §1.322)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Certificate of Correction

Certificate

SEP 17 2007

of Correction

Dear Sir:

Attached is Form PTO-1050 (Certificate of Correction) at least one copy of which is suitable for printing. The errors together with the exact page and line number where the errors are shown correctly in the application file are as follows:

SPECIFICATION:

1. Column 29, line 46, change "bf nozzles" to --of nozzles--. This appears correctly in the patent application as filed on September 8, 2003, on page 56, line 16.

CLAIMS:

1. In line 14 of claim 3 (column 33, line 28) change "dot-timing" to --dot-forming--. This appears correctly in Amendment A as filed on August 14, 2006 on page 3, paragraph 2, line 5.

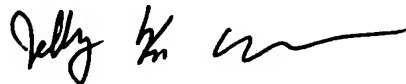
2. In line 6 of claim 5 (column 34, line 20) change "bead" to --head--. This appears correctly in Amendment A as filed on August 14, 2006 on page 4, paragraph 4, line 4.

SEP 17 2007

Patentee hereby requests expedited issuance of the Certificate of Correction because the error lies with the Office and because the error is clearly disclosed in the records of the Office. As required for expedited issuance, enclosed is documentation that unequivocally supports the patentee's assertion without needing reference to the patent file wrapper.

It is noted that the above-identified errors were printing errors that apparently occurred during the printing process. Accordingly, it is believed that no fees are due in connection with the filing of this Request for Certificate of Correction. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. MES1P046C1).

Respectfully submitted,
BEYER WEAVER LLP

A handwritten signature in black ink, appearing to read 'Jeffrey K. Weaver', with a long horizontal flourish extending to the right.

Jeffrey K. Weaver
Registration No. 31,314

P.O. Box 70250
Oakland, CA 94612-0250

SEP 17 2007



C4. Modification 4

[0124]

In the first embodiment, the upstream slot 26f was disposed opposite
5 some of the upstream nozzles Nf (see Fig. 20), which included the most
upstream nozzles of the print head 28. The downstream slot 26r was
disposed opposite some of the downstream nozzles Nr (see Fig. 6), which
included the most downstream nozzles Nz of the print head 28. The relation
between the nozzles and slots is not limited by this arrangement, however. It
10 is possible, for example, to place a group of nozzles further upstream of the
upstream slot 26f and to place an upstream platen support opposite this
group of nozzles. Adopting this arrangement makes it less likely that the
front edge (upper edge) of a print medium arriving from the upstream side
will fall down into the upstream slot. Similarly, a group of nozzles can be
15 provided further downstream of the downstream slot 26r, and a downstream
platen support can be placed opposite this group of nozzles.

[0125]

Fig. 23 is a plan view depicting the relation between the printing paper
P and a slot 26m during the printing of images along the upper edge Pf of the
20 printing paper P with a modified printing device. The first embodiment was
described with reference to a case in which the platen slots consisted of an
upstream slot 26f and a downstream slot 26r, the images in the front-edge
portion of the printing paper P were printed with the nozzles Nr disposed
opposite the downstream slot 26r, and the images in the rear-edge portion of
25 the printing paper P were printed with the nozzles Nf disposed opposite the
upstream slot 26f. However, the platen slots are not limited by this
configuration, and embodiments in which the platen is provided with a single
slot are also acceptable. In such embodiments, the images in the lower- and
front-edge portions of the printing paper P are printed with nozzles Nm that
30 are disposed opposite the single slot 26m provided to the platen. Such

3. (currently amended) A dot-recording control device for generating print data to be sent to a dot-recording unit for recording dots on a surface of a print medium with the aid of a dot-recording head provided with a plurality of dot-forming elements for ejecting ink droplets, wherein

the dot-recording unit is configured to drive the dot-recording head and/or the print medium to perform main scanning, to drive at least some of the dot-forming elements to form dots, and to cause the print medium to perform sub-scanning by being driven across the main scanning direction in between the main scans, and comprises a platen configured to extend in the main scanning direction and to be disposed opposite the dot-forming elements at least along part of a main scan path, and having a slot configured to extend in the main scanning direction, a width of the slot in the sub-scanning direction corresponding to a specific sub-scanning range on a surface of the dot recording head including at least part of the plurality of dot-forming elements, the dot-recording control device comprises;

an image data generator configured to generate image data for the images recorded on the print medium;

an area size memory configured to store information about an expanded area in accordance with a type of print medium to be used in the dot recording, the expanded area extending lengthwise beyond front and rear edges of the print medium including an external edge portion disposed in an area beyond the front or rear edge of the print medium, and representing a recording area in which images are to be recorded on the print medium;

an input unit by which information about a selected type of print medium is entered; and

a print data generator configured to generate the print data representing images in the expanded area on the basis of information about the selected type of print medium, information about the expanded area, and the image data;

the dot-recording control device further comprising;

a user interface unit configured to display a selection screen that allows an user to select one of a plurality of preinstalled print modes on a display, and that allows the selection be entered; wherein the area size memory comprises,

an expanded area memory containing, for each print mode, a number of raster lines constituting the expanded area; and wherein

the print data generator generates the print data including a data of dots of raster lines in the external edge portion for recording dots with which images can be formed in the expanded area on the basis of the selected print mode and the external edge portion, the number of raster lines stored in the expanded area memory, and the image data for the images to be recorded on the print medium.

4. (original) A dot-recording control device as defined in Claim 3, wherein the plurality of available print modes include print modes with mutually different sub-scan resolutions, the sub-scan resolution representing a recording density of raster lines in the sub-scanning direction; and

the print data generator comprises a raster line number setter setting a number of raster lines constituting the expanded area and the number of raster lines constituting the external edge portion included in the expanded area in accordance with the selected print mode and the number of raster lines stored in the expanded area memory.

5. (currently amended) A dot-recording device for recording ink dots on a surface of a print medium with the aid of a dot-recording head provided with a plurality of dot-forming elements for ejecting ink droplets, the dot-recording device comprising:

a main scanning unit configured to drive the dot-recording head and/or the print medium to perform main scanning;

a head driver configured to drive at least some of the dot-forming elements to form dots during the main scanning;

a platen configured to extend in the main scanning direction and to be disposed opposite the dot-forming elements at least along part of a main scan path;

a sub-scanning unit configured to move the print medium to perform sub-scanning in between the main scans; and

a controller configured to control the dot-recording device, wherein the platen has a slot configured to extend in the main scanning direction, a width of the slot in the sub-scanning direction corresponding to a specific sub-scanning range on a surface of the dot recording head including at least part of the plurality of dot-forming elements; and

the controller comprises:

a print data memory configured to store a print data for recording images in an expanded area that extends lengthwise beyond front and rear edges of the print medium including an external edge portion disposed in an area beyond the front or rear edge of the print

(Also Form PT-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,165,827 B2

Page 1 of 1

DATED : January 23, 2007

INVENTOR(S) : Koichi Otsuki

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Specification:

Column 29, line 46, change "bf nozzles" to --of nozzles--.

In the Claims:

In line 14 of claim 3 (column 33, line 28) change "dot-timing" to --dot-forming--.

In line 6 of claim 5 (column 34, line 20) change "bead" to --head--.

MAILING ADDRESS OF SENDER:

PATENT NO. 7,165,827 B2

Haruo Yawata
BEYER WEAVER LLP
P.O. Box 70250
Oakland, CA 94612-0250

No. of Additional Copies

SEP 17 2007

1

Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.